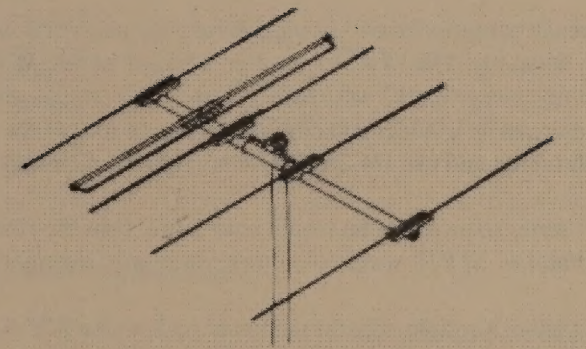


# VHF/UHF Amateur Antenna Catalog



MY-144-5

***Mosley Electronics, Inc.***

10812 Ambassador Boulevard, St. Louis, Missouri 63132  
USA

Orders: 1-800-325-4016 or 1-800-966-7539

Technical: 1-314-994-7872 Fax: 1-314-994-7873

*Saving you MONEY Factory Direct!*

Dear Fellow Amateur:

Re: Difference between the MY and AM Series of Antennas

We have included two totally different types of VHF/UHF antennas in this catalog. The AM-Series of antennas are designed to be very heavy duty and are designed to take the absolute roughest of environments, while giving you excellent performance.

The MY-Series of antennas are designed to give you excellent performance and long life, however, were designed to be extremely light weight and low wind load. The MY-Series of antennas will last for years, in fact I have a MY-144-5 that has been up for over 20 years.

These antennas are not built to be abused on the ground or during installation as are the AM-Series. The MY-Series of antennas are perfect for going above HF systems using light weight rotors and towers.

The best example of the difference between the two designs is one that happened with my youngest son when he was six years old. I had taken down my AM-144-2 to put it on a higher tower. While working on the new tower I put the AM-144-2 up against my garage until I was ready to remount it on the new tower. While working in another area my son used the antenna as a ladder and climbed up on the roof of the garage. The elements on the AM-Series are made of aircraft tubing and use 1/4-20 U Bolts to hold the elements in place.

If he had tried this with a MY-Series of antennas he would have easily bent the elements. The MY-Series antennas are designed to withstand 80 M.P.H. winds and other conditions, but not direct physical punishment.

The reason I bring this up is I've had a couple of hams comment on how the MY-Series is built. They wanted to know if Mosley was lessening their products. No we aren't! These models are designed for a inexpensive light weight installation.

The performance and the longevity of these beams are excellent, however, they are not built as "Spartan" as the AM-Series.

Both types come with a 2 year warranty and either style will give you years of operating enjoyment.

73,

Gary  
K0VUW



## VHF/UHF SINGLE FREQUENCY YAGIS

### "Power-Master" Heavy Duty VHF Beam

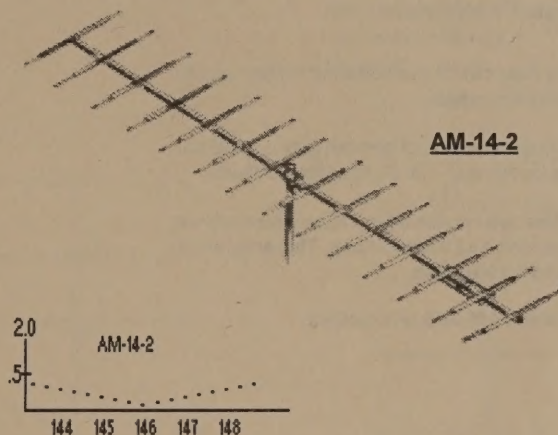
Mosley "Power-Master" VHF antennas combine superlative performance with the most rugged construction to be found in any VHF antenna for amateur use. Element sections are 5/8" O.D. and 1/2" O.D. aircraft tubing, establishing an extremely low ratio of length-to-diameter. All metal hardware is stainless steel or other rust-proof material. The element-to-boom clamping blocks are of high-impact polystyrene and are self aligning. A unique matching stub permits antenna to be fed direct with 52 ohm coax. The AM-14-2 gives you a very low VSWR over the entire band, while maintaining a high "Q".

#### Mosley AM-14-2

##### 2 Meter, 14 Elements

##### Specifications & Performance Data

Forward Gain:	15.9 db.
Front-to-Back Ratio:	25 db.
Side Rejection:	45 db
SWR at resonance:	1.1/1
Maximum Element Length:	3 ft. 5 in.
Boom Length:	12 ft.
Turning Radius:	6 ft. 5 in.
Wind Load	1.6 sq. ft.
(EIA standard 80 MPH):	37 lbs.
Assembled Weight:	16.5 lbs.
Warranty:	2 Years



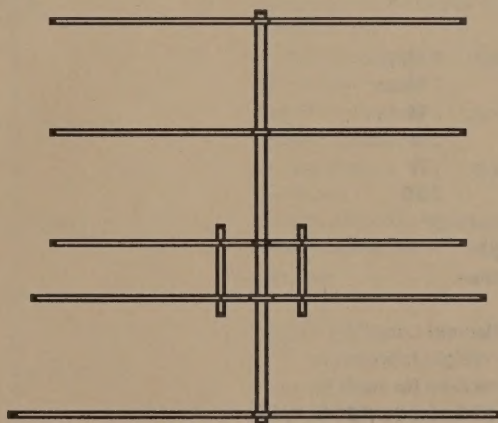
#### AM-56 "Six" Meter Beam 5 Elements

##### AM-56

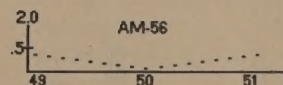
##### 5 Element Six Meter Beam

##### Specifications & Performance Data

Forward Gain:	10.8 db.
Front-to-Back Ratio:	20 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 9 in.
Boom Length:	12 ft.
Turning Radius:	6 ft. 5 in.
Wind Load	2.1 sq. ft.
(EIA standard 80 MPH):	32 lbs.
Assembled Weight:	14.5 lbs.
Warranty:	2 Years



The AM-56 is an extra rugged 6 meter beam. The antenna is made out of aircraft grade drawn tubing, which is pre drilled and color coded. All the hardware is stainless steel. The antenna will handle all the power you can put into it. It is capable of 100+ mph winds and just about any ice or sand conditions. The AM-56 will give you a "life time" of superb use.



## *VHF Dual Band "Six" and "Two" Special* **AM-2N6**

### **AM-2N6**

**4 Elements on Six Meters**

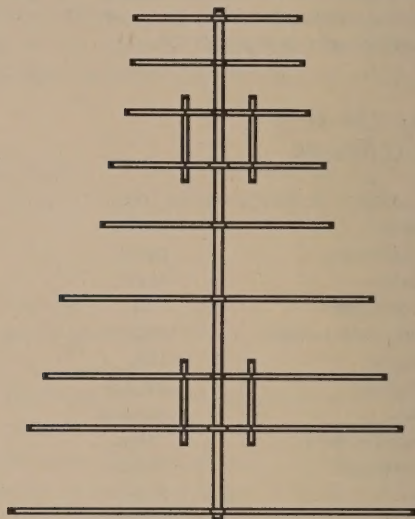
**5 Elements on Two Meters**

This antenna is also out of our commercial line and is built for extra heavy usage.

The elements are made out of aircraft tubing and are secured to the boom with 1/4-20 stainless U Bolts.

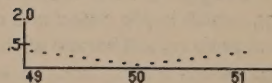
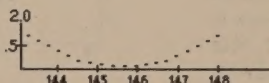
The antenna uses two separate feed lines which allows dual bands receiving and transmitting. This antenna is made to last a very long time.

Performance of the AM-2N6 is excellent.



### **Specification and Performance Data** **AM-2N6**

Forward Gain:	6 Meter	9.1 dbd.
	2 Meter	10.1 dbd.
Front-to-Back:	6 Meter	20 db.
	2 Meter	20 db.
Power Rating:	CW	1.5 KW
	SSB	3.0 KW
SWR at frequency:		1.0/1 to 1.6/1
Boom Length:		14 ft.
Turning Radius:		8' 9"
Mast Size:		1-1/2"
Maximum Element Length:		9 ft. 8"
Assembled Weight (approx.):		21 lbs.
Wind Surface Area (in sq. ft.):		2.5 ft. <sup>2</sup>
Wind Load (EIA standard 80 M.P.H.):		50 lbs.
Shipping Weight (approx.):		30 lbs.
Warranty:		2 Years





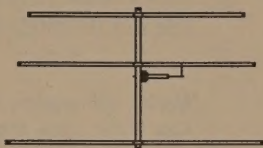
**Light Weight, Excellent Performance, Mosley Quality in A-500-S series of "Six Meter" Beams. Uses our Special Gamma Base assembly. Connect your cable directly to a SO-239 or an optional N connector.**

**A-503-S**

**3 Element Six Meter Beam**

**Specifications & Performance Data**

Forward Gain:	6.8 dbd.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 9 in.
Boom Length:	6 ft.
Turning Radius:	6 ft. 5 in.
Wind Load	1.3 sq. ft.
(EIA standard 80 MPH):	22 lbs.
Assembled Weight:	7.5 lbs.
Warranty:	2 Years

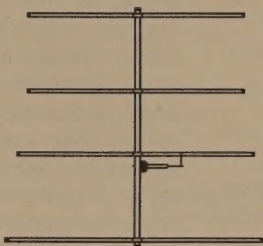


**A-504-M-S**

**4 Element Six Meter Beam**

**Specifications & Performance Data**

Forward Gain:	7.5 dbd.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 9 in.
Boom Length:	9 ft.
Turning Radius:	6 ft. 5 in.
Wind Load	1.45 sq. ft.
(EIA standard 80 MPH):	28 lbs.
Assembled Weight:	10.5 lbs.
Warranty:	2 Years

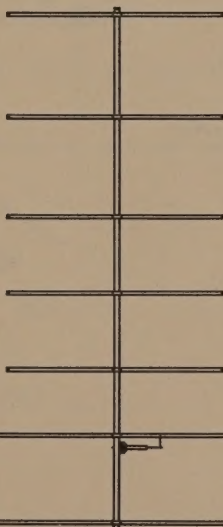


**A-504-L-S**

**4 Element Six Meter Beam**

**Specifications & Performance Data**

Forward Gain:	8.3 dbd.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 9 in.
Boom Length:	12 ft.
Turning Radius:	7 ft. 5 in.
Wind Load	1.65 sq. ft.
(EIA standard 80 MPH):	31 lbs.
Assembled Weight:	12.5 lbs.
Warranty:	2 Years



**A-505-S**

**5 Element Six Meter Beam**

**Specifications & Performance Data**

Forward Gain:	9.0 db.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 9 in.
Boom Length:	12 ft.
Turning Radius:	7 ft. 5 in.
Wind Load	1.45 sq. ft.
(EIA standard 80 MPH):	35 lbs.
Assembled Weight:	14.5 lbs.
Warranty:	2 Years

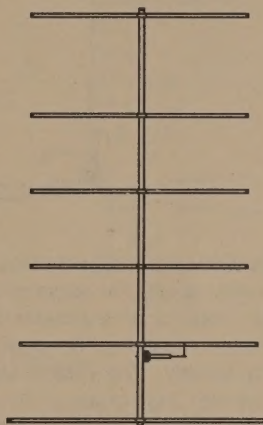


**A-506-M-S**

**6 Element Six Meter Beam**

**Specifications & Performance Data**

Forward Gain:	9.3 dbd.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 7 in.
Boom Length:	14.0 ft.
Turning Radius:	7 ft. 6 in.
Wind Load	1.35 sq. ft.
(EIA standard 80 MPH):	30.5 lbs.
Assembled Weight:	17.5 lbs.
Warranty:	2 Years



**A-506-L-S**

**6 Element Six Meter Beam**

**Specifications & Performance Data**

Forward Gain:	11.4 dbd.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 7 in.
Boom Length:	24.0 ft.
Turning Radius:	12 ft. 10 in.
Wind Load	2.15 sq. ft.
(EIA standard 80 MPH):	49.5 lbs.
Assembled Weight:	21.5 lbs.
Warranty:	2 Years

**A-507-L-S**

**7 Element Six Meter Beam**

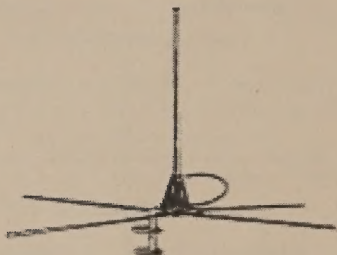
**Specifications & Performance Data**

Forward Gain:	12.1 db.
Front-to-Back Ratio:	25 db.
SWR at resonance:	1.1/1
Max. Element Length:	9 ft. 10 in.
Boom Length:	28.0 ft.
Turning Radius:	18 ft. 6 in.
Wind Load	2.85 sq. ft.
(EIA standard 80 MPH):	49.5 lbs.
Assembled Weight:	29.5 lbs.
Warranty:	2 Years

***Super Little 2 Meter Combination!  
"Omni" & Mono for VHF/UHF  
The Mosley DI-2 And MY-144-5!***

**2 Meter  
Omni-directional  
Ground Plane  
5/8 Wave Vertically Polarized**

**(Also Available for 220 and 440 MHz)  
DI-220 and the DI-440**

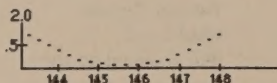


Omni-directional vertically polarized, high-performance 2 meter antenna with low angle of radiation for maximum coverage. Ideal for area 2 meter QSO's and repeater to mobile communications. Simplicity of design makes for ease of assembly. The vertical element made of high tensile strength, high grade aluminum. High impact polystyrene base. All hardware is stainless steel. Antenna lightweight. Mounting hardware fits up to 1-1/2" O.D. mast. Another quality addition to the Mosley 2 meter family of antennas.

**Specification and Performance Data**

**DI-2**

Gain:	3.4 db. Over 1/4 wave
Power Rating:	
FM/CW	1 KW
P.E.P. SSB.	2 KW
SWR at resonance:	1.0/1 to 1.5/1
Impedance:	52 ohms
Matching:	"Mosley Induct-O-Match"
Ground Radials:	4
Wind Load	
(EIA standard 80 MPH):	6.12 lbs.
Square Feet	.15 Sq.Ft.
Assembled Weight (approx.):	1 lb. 12 oz.
Height (approx.):	4 ft.
Warranty:	2 Years



**MY-Series VHF/UHF**

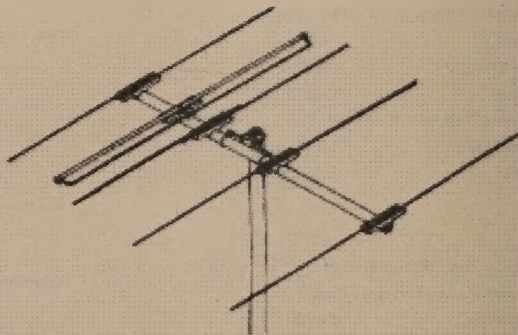
**This Inexpensive Package will take care of your 2 Meter requirements whether you're just starting out on the band or you are a seasoned operator.**

***High Performance, Light Weight  
Low Wind Load, High Power***

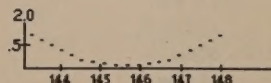
**3/4, 1-1/4, 2 Meter Beams**

Incorporated in the Mosley MY-144-5, MY-144-9 element Yagis are the same high standard of quality construction established by Mosley for over 50 years of manufacturing amateur antennas. Rugged yet light-weight, these beams have 1/8 inch O.D. solid aluminum elements. The unique element-to-boom insulator permits easy adjustment in element length for tuning. Element spacing and length have been carefully engineered to give high forward gain, good front-to-back ratio and broad frequency response. The matching system, incorporated in the radiator element is a 200 ohm folded dipole with a 4 to 1 coaxial balun for maximum efficient transfer of RF energy from cable to beam. Mounting hardware fits masts up to 1-1/4 in. O.D. Antenna comes complete with illustrated instructions and color coded parts with pre-drilled holes for ease of assembly.

**Specification and Performance Data for the MY-144-5 is on Page 44.**



**MY-144-5**





**"MY-Series" Light Weight, Low Wind Load VHF/UHF Yagis**
**Specifications & Performance Data**

Model:	<u>MY-144-5</u>	<u>MY-144-9</u>	<u>MY-220-9</u>	<u>MY-430-14</u>
Frequency in MHz	144 to 148	144 to 148	220 to 225	430 to 450
Power Rating:				
AM/CW/FM	1 KW	1 KW	1KW	1KW
P.E.P. SSB.	2 KW	2 KW	2 KW	2 KW
Forward Gain:				
reference dipole	10 db.	12 db.	12 db.	16.5 db.
isotropic source	12 db.	14 db.	14 db.	18.5 db.
Front-to-Back Ratio:	20 db.	20 db.	20 db.	20 db.
Feed Point Impedance:	52 ohms	52 ohms	52 ohms	52 ohms
SWR:	1.0/1	1.0/1	1.0/1	1.0/1
Matching System:	Folded dipole	Folded dipole	Folded dipole	Folded dipole
Number of Elements:	5	9	9	14
Maximum Element Lgt	3 ft. 5 in.	3 ft. 5 in..	27 in.	15 in.
Boom Length:	4 ft. 6 in.	9 ft.	8 ft. 2 in.	6 ft. 10 in.
Mast Size:	1" to 1 1/4"	1" to 1 1/4"	1" to 1 1/4"	1" to 1 1/4"
Turning Radius:	2 ft. 10 in.	4 ft. 10 in.	4 ft. 2 in.	3 ft. 10 in.
Wind Area (in sq. ft.):	0.4 ft. <sup>2</sup>	0.8 ft. <sup>2</sup>	0.7 ft. <sup>2</sup>	.66 ft. <sup>2</sup>
Wind Load				
(EIA 80 MPH):	6.6 lbs.	10.5 lbs.	7.0 lbs.	7.0 lbs.
Assembled Weight:	2 lbs.	3.5 lbs.	3.5 lbs.	3.5 lbs.
Shipping Weight:		Oversize 30 Pound Minimum UPS charge		
Warranty:	2 Years	2 Years	2 Years	2 Years

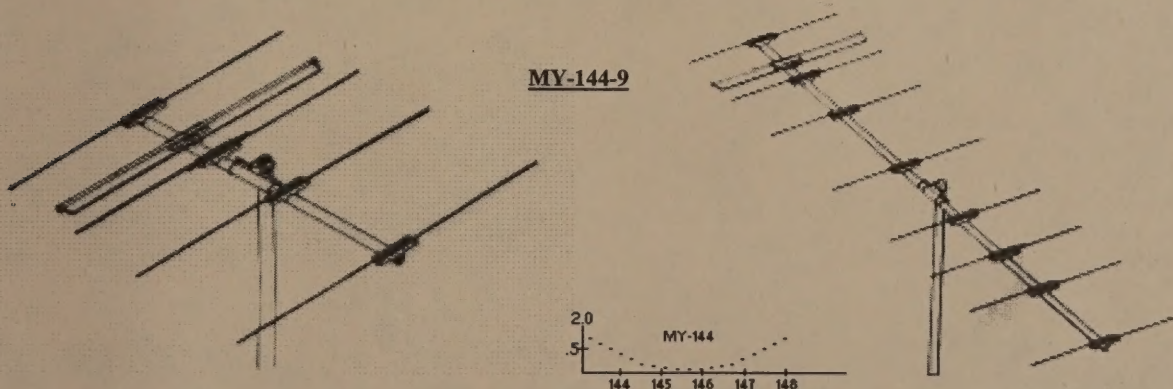
**3/4, 1-1/4, 2 Meter Beams**
**(Turn these with only a heavy duty TV rotor!)**

Incorporated in the Mosley MY-Yagis are the same high standard of quality construction established by Mosley for over 50 years of manufacturing amateur antennas.

Rugged yet light-weight, these beams have 1/8 inch O.D. solid aluminum elements. The unique element-to-boom insulator permits easy adjustment in element length for tuning. Element spacing and length have been carefully engineered to give high forward gain, good front-to-back ratio and broad frequency response.

The matching system, incorporated in the radiator element is a 200 ohm folded dipole with a 4 to 1 coaxial balun for maximum efficient transfer of RF energy from cable to beam.

Mounting hardware fits masts up to 1 1/4 in. O.D. Antenna comes complete with illustrated instructions and color coded parts with pre-drilled holes for ease of assembly.



**From:**  
**Mosley Electronics, Inc.**  
**10812 Ambassador Boulevard**  
**St. Louis, Missouri 63132**  
**USA**

**To:**

**Amateur Radio Station**